

Certificate of Biostatistics

24 December 2019

To whom it may concern,

Title: Transcriptional landscape of PD-1, PD-L1 and PD-L2 correlated genes and their association with mutation, immune infiltration and clinical outcomes of hepatocellular carcinoma

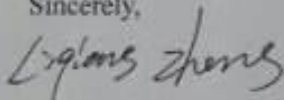
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This letter is to confirm that in my opinion the statistical methods and techniques mentioned are appropriate for the research.

Please contact me if you have any queries.

Sincerely,



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